

TReK 0.5.0 Release Notes

Known Issues with TReK 0.5.0

1. Very little performance testing has been done at this time. We will continue to tune the software to maximize performance leading up to the operational release.
2. Memory leaks may still exist. They shouldn't be bad, but some applications will grow in size.
3. Print from the TReK Assistant (Help) does not work on Windows.

Things to Know about TReK 0.5.0

1. **TReK 0.5.0 requires that you install ION-3.3.1.** If you are using an older version of ION some TReK applications may not work correctly.
2. The ERIS simulator is provided to allow you to exercise the HPEG GUI prior to the POIC delivery of HPEG capabilities to remote users. The ERIS simulator does not support multiple connections or reconnecting from the HPEG GUI. You will need to restart the ERIS simulator if you deactivate HPEG.
3. Start scripts are provided on Linux to properly set up the environment before launching executables. If you are using the command line, it is suggested that you use the scripts as well.
4. The TReK CFDP Console application and ERIS Simulator must be started using a command line. These executables are located in the TReK Installation bin directory. Other applications can be started from the TReK menu.
5. A slash is required on the end of both the source and destination path for directory transfers in the CFDP GUI and CFDP Console.
6. The current CFDP configuration default values work well for local area network transfers of files when using Native CFDP. However, if you perform file transfers in a non-DTN delay environment, you may need to change the values to always have successful file transfer. In those instances you will get a message about file transfers failing because of Ack/Nak limits being reached or inactivity timeout.
7. If the TReK Assistant is behaving oddly, you can delete the local cache folder to see if it fixes the problem. Delete the gov.nasa.msfc.trek directory. The location of the directory is operating system dependent:
Windows: C:\Users\<username>\AppData\Local\gov.nasa.msfc.trek
Linux: /home/<username>/.local/share/gov.nasa.msfc.trek
8. The Windows examples delivered are for Visual Studio 2010. They can be updated to newer versions of Visual Studio as required. Please make sure that you get the .lib and .dll files that match the version of Visual Studio you are using.
9. Windows only - The TReK IONizer application will have a console window that opens in addition to the graphical user interface. You will also see console windows for bpecho and trek_hpeg_proxy if those applications are started as part of ION startup.

10. ION configuration files generated on a Windows computer and then moved to a Linux computer can have characters that cause problems with Linux scripting. You can fix this problem with a simple command line in the directory where the files are moved. The command line is:

```
sed -i -e 's/\r$//' *
```

If you see a message with “^M” in it, you will have to use the above command line to fix the problem.

11. It is recommended that you use TCP as the convergence layer for all ION configurations. Most of the testing with the TReK generated configuration files has been with TCP. If you must use UDP, please be aware that bundle retransmission will not occur in ION if the data is not received even with custody transfer turned on. For this reason, if UDP is needed you should consider using LTP over UDP.
12. When using the EXPRESS library, you should get a tool that provides the Rack Interface Controller (RIC) capability. This can be either hardware/software combinations (RAPTR or Suitcase Simulator) or pure software (Common Suitcase Simulator).

If you discover anything that is not on the list, please contact the TReK Help desk at trek.help@nasa.gov.